

1 **In the claims:**

- 2 1. A system for requesting information about Resources comprising:
3 a Client CIM, for receiving a request from the Client for information about at least
4 one Resource on a Cluster, and providing the request to a requesting Node on the Cluster;
5 a requesting CIMOM, provided on the requesting Node and connected to the
6 Client CIM, for receiving the request, wherein the requesting Node comprises a Multiplex
7 Provider for communicating the request to additional CIMOM Nodes on the Cluster; and
8 at least one additional CIMOM Node on the Cluster and connected to the
9 requesting CIMOM Node,
10 whereupon receiving the request from the Client CIM, the requesting CIMOM
11 Node provides the request to the Multiplex Provider, and the Multiplex Provider contacts
12 the at least one additional CIMOM Node and requests the information.
- 13 2. The system of claim 1, whereupon receiving the request for information the at
14 least one additional CIMOM Node obtains information from at least one Provider
15 associated with the at least one additional CIMOM Node and forwards the obtained
16 information to the Multiplex Provider.
- 17 3. The system of claim 2, whereupon receiving the obtained information, the
18 Multiplex Provider compiles the obtained information with information obtained from at
19 least one additional Provider into a table, the table being presented to the Client.
- 20 4. The system of claim 1, wherein each of the requesting CIMOM Node and the at
21 least one additional CIMOM Node is compliant with at least one of the Common
22 Information Modeling standard and the WBEM standard.
- 23 5. The system of claim 1, wherein the request further comprises a scope for the
24 request, the scope designating from which of the additional CIMOM Nodes the
25 requesting CIMOM Node is to request information.
- 26 6. The system of claim 5, wherein the requesting CIMOM Node communicates a
27 local scope to the at least one additional CIMOM Node, wherein the local scope directs
28 each of the at least one additional CIMOM Node receiving the local scope to request the
29 information on a local scale.
- 30 7. A process for receiving information about Resources on a Cluster comprising:
31 receiving a request from a Client at a first Node on a Cluster;
32 providing the request to a Multiplex Provider associated with the first Node;
33 communicating the request, via the Multiplex Provider, to at least one CIMOM
34 Node;

1 receiving information from at least one CIMOM Node, through the Multiplex
2 Provider;
3 compiling the received information; and
4 providing the received information to the Client through the first Node.

5 8. The process of claim 7, wherein the request is communicated by the Client through
6 a Client CIM connected to a requesting CIMOM associated with the first Node.

7 9. The process of claim 8, wherein each of the Client CIM and the requesting
8 CIMOM is compliant with the Common Information Modeling standard.

9 10. The process of claim 7, wherein the request further comprises a request for
10 discovery of at least one Resource available on the Cluster.

11 11. The process of claim 10, whereupon receiving a request for discovery, the first
12 Node directs the Multiplex Provider to discover which of the at least one Resource is
13 available from which Nodes on the Cluster, and the first Node stores a result of the
14 discovery in a database.

15 12. The process of claim 11, wherein a result of the request for discovery results in an
16 identification of at least one Resource on a Cluster which meets a predefined threshold
17 specified by the Client.

18 13. The process of claim 7, wherein the request further comprises an indication of a
19 scope for requesting information from the Cluster.

20 14. The process of claim 13, wherein the scope includes a request for information
21 from at least one of a Node, a Provider, a type of Provider, a Resource, a type of Resource
22 and a subset of a Resource.

23 15. A process for determining which Resources are present on a Cluster comprising:
24 establishing a communications link between a Client and at least one Node on the
25 Cluster, wherein the Client is requesting information about at least one Resource on a
26 Cluster; and
27 communicating a scope of the request, wherein the scope specifies a field of
28 search on the Cluster.

29 16. The process of claim 15, wherein the scope is determined by a Client based upon a
30 result of a discovery, wherein the discovery further comprises sending a query from a
31 requesting CIMOM Node to each of at least additional CIMOM Node on the Cluster, the
32 query further comprising a request for an identification of at least one of a Node,
33 Resource, Provider and object that is accessible via the Cluster.

1 17. The process of claim 16, wherein the at least one additional CIMOM Node
2 provides a response to the request, the response including an identification of at least one
3 object on the Cluster and whereupon receiving the response, the request is compiled into
4 a tabular form by the requesting CIMOM Node.

5 18. The process of claim 17, wherein the process further comprises filtering the
6 identification of at least one object for presentation on the Client Node.

7 19. A process for obtaining information about at least one Resource on a Cluster
8 comprising:

9 receiving a request, for information about at least one Resource on a Cluster, from
10 a Client through a Client CIM, and a Client CIMOM provided on a first Node on the
11 Cluster;

12 providing the request to a Multiplex Provider;

13 determining a scope of the request;

14 performing discovery on the Cluster for at least one Provider providing
15 information responsive to the request by sending a broadcast probe across the Cluster;

16 receiving, from at least one of at least one additional CIMOM Node, at least one
17 Resource and at least one Provider, at least one response to the broadcast probe;

18 providing the results of the broadcast probe to the Client, via the Client CIM;

19 receiving from the Client, via the Client CIM, a scope for the query, wherein the
20 scope includes an identification of at least one of the at least one additional CIMOM
21 Node, Resource and Provider that responded to the broadcast probe to whom the Client
22 desires to communicate the query;

23 communicating the query to at least one of the CIMOM Nodes, Resources and
24 Providers identified by the scope of the query;

25 receiving information in response to the query from at least one of the CIMOM
26 Nodes, Resources and Providers identified by the scope of the query;

27 compiling the information received into a table; and

28 providing the compiled data to the Client via the Client CIM.

29 20. A computer readable medium containing instructions for implementing the
30 process of claim 19.